Exercise – Conditional loops

Trace the following three snippets of code.

Question 1:

```
n = 1
while (n == 10):
    print ("mmm donuts")
    n = n * 2
print ("end")
```

OUTPUT	MEMORY
end	n=1

Question 2:

```
c = 10
while (c > -1):
    c = c -3
    print (c)
print ("end")
```

OUTPUT	MEMORY
10	10,7,4,1,-2,
7	
4	
1	
-2	
end	

Question 3:

```
c = 3
while (c > -1):
    c = c - 2
    print (c)
print ("end")
```

OUTPUT	MEMORY

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1 -1 end	3,1,-1

4. Write a program that prints the line 'I am so smart' exactly 10 times. Save your program as YourFirstName_cond01.py (upload all programming files at the very end).

```
x=0
while (x<10):
    x=x+1
    print ("I am so smart")
```

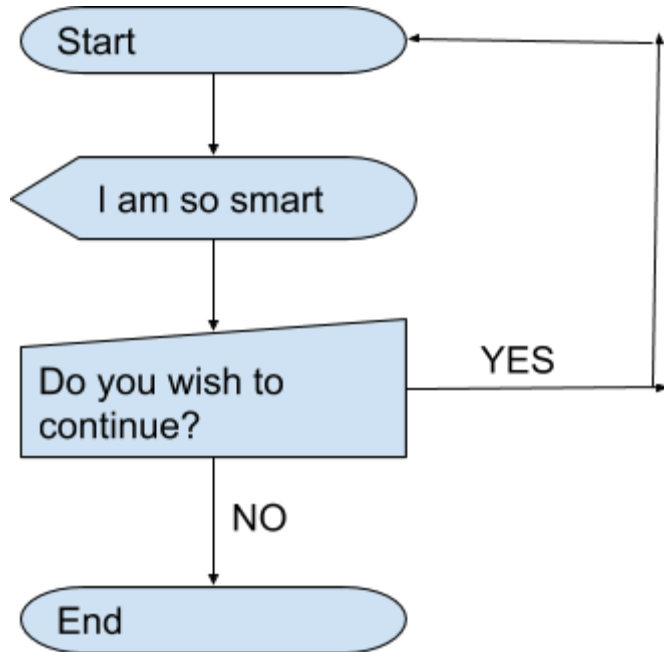5) Create the flowchart and write a Python program that …

prints the phrase "I am so smart" to the screen and prompts the user each time if they wish to continue. The program needs to keep track of how many times the phrase is printed.

Sample Output
I am so smart Do you wish to continue? Yes I am so smart Do you wish to continue? No Number of times the loop was executed: 2

Save your Python program as YourFirstName_cond02.py

Double-click on the drawing below and complete the flowchart here:

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6) Write a program that simulates the login to the computer network at HB.
- Create constants called LOGIN and PASSWORD which are initialized to your student number and birthday (mm-dd-yyyy) respectively (whatever the user enters will be compared to this!).
- Your program will continue to prompt the user for a Login and Password. If the login and password match the constants, output the message "Login Successful". Otherwise output "Login Unsuccessful. Try Again".
- After three unsuccessful tries, output the message "You have attempted to login unsuccessfully too many times" and EXIT the loop.

Save your Python program as YourFirstName_cond03.py

You are done!! Upload all of your Python Programs to this Assignment post and turn in this assignment as well.

"""

Filename:

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